BRUHAT BANGALORE MAHANAGARA PALIKE

YALAHANKA ZONE

Name of Work:-Detailed Estimate for Upgradation and repairing of Park lights in 4th cross and 6th main 5th phase & Parks in yelahanka ward no-3.

Budget Head .....

Division No..... Estimate No. AE/2021-22 For Rs. **350000.00**

Sl. No.	SR Page & SL No	Description of Work	Unit	Qty	Rate	Amount
		PWD Electrical SR 2019-20				
1	65/12.7.2	Supply of LED pole mounting type post top lantern with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/ clear glass material, delivering superior light output.Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB . LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Post Top Lantern with 35 watts	Nos. Mtrs	15	6400.00	96000.00
2	40/6.4.4	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average	Mtrs	280	150.00	42000.00
3	41/6.5.1	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.6 sqmm to 16 sqmm	Mtrs	280	11.88	3326.40
4	41/6.6.1	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs	260	76.00	19760.00
5	30/5.42.2	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete.16SWG	sq.cms	0.35	30000.00	10500.00

6	5.41.1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm	Mtrs	8	255.00	2040.00
7	14/4.4.1	Fabricating, supplying and erection of ...Mtrs long hot dip **Galvanized Conical pole** with BSEN 10025 grade S355JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended.3 meters - Top 75mm and bottom 105 mm dia	Each	15	5037.00	75555.00
8	27/5.14.7	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics)FOUR POLE 100Amps 25kA.	Each	1	6400.00	6400.00
9	5.17.6	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.50-63 Amps DP	Each	2	1355.00	2710.00
10	5/2.3.2	Wiring for lighting/power circuit using one of **FRLS** PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.1.5 sqmm	Mtrs	100	20.50	2050.00
11	PWD Civil SR 2018-19	Eartwork excavation for foundation of buildings,water supply,sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches,stacking the excavated soil clear from edges of excavation with lead upto 50m. including breaking of clods complete as per specifications. KSRB 2.1.1:- do-Ordinary soil	Cum	3.75	340.64	1277.40
12	PWD Civil SR 2018-19	KSRB 4-6.1: Provding and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications (p.NO-16, I No-4.28)	Sqmtrs	6	273.48	1772.15

13	PWD Civil SR 2018-19	KSRRB .:Providing and laying in position plain cement concrete of nominal mix 1:4:8 with OPC @ 180Kgs,with using 40 mm and down size graded granite metal coarse aggregates @0.85cum and fine,aggregates @ 0.57cum mechine mixed concrete laid in layers not exceeding 15cm thick well compacted,in foundation and plinth,including cost of all materials ,labour,HOM machinaries ,curing complete as per specifications.KBS 4.1,4.2	Cum	0.19	5102.00 5803.80	1102.72
14	PWD Civil SR 2018-19	KSRB 4.9.2 : Providing T.M .T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position,lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery omplete as per specifications. Specification No. KBS 4.6.3 (12mm, 0.89kgm & 8mm, 0.39kg/m @ 150mm c/c)	Kgs	117	Basic Rate 40.966 92.66	10794.89
15	PWD Civil SR 2018-19	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing , main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)4.48	cum	2	5444.00 6474.08	10488.01
16	AR se(ele)p.r/ 959/21-22 dt 19.01.22	Supplying an errection of Single phase 63 Amps Thyrister based Street light control system consisting of , Microcontroler based electronic timer with RTC, 2 x 16 LCD with back light, 5 Tactile keys, 106 Amps Tyrister module for load switching mounted on extruded Aluminium heat sink, Thyrister driver card for switching Thyrister module, 2 numbers of 63 Amps MCB for over load protection and manual switching, 18 swg CRCA MS sheet enclosure.	Nos	1	29800.00	29800.00
		Total Rs				**315576.57**
		GST Charges (12% on SR Electrical items)	285777			34293.19
						130.24
		Total Rs				**350000.00**

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD(Elec) SR of 2019-20,PWD Civil SR 2018-19 & approved Rates

Asst. Engineer (Elec)

Asst. Exe. Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YALAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 3.50. Lakhs
Rupees Three Lakh FIFTY
THOUSAND ONLY
is accordedunder
Registered No. 31/2021-22 Subject
to conditions contained in
No. BBMP/EE(ELE)/42/AS/31/2021-22
Dt 07/03/2022
Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 3.50. Lakhs
Rupees Three Lakh FIFTY
THOUSAND ONLY —
Under
Registered No. 15/2021-22
Subject contained in
BBMP/EE(ELE)/42/AS/31/2021-22
Dt. 07/08/2022
Technically Sanctioned
BBMP/EE(ELE)/42/TS/15/21-22
Dated 07/03/2022 Rs. 3.50. Lakhs
Executive Engineer